Maya M. Juman

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EDUCATION

Ph.D. in Biological Sciences, Gates Cambridge Scholar Department of Veterinary Medicine, University of Cambridge

B.S. in Ecology & Evolutionary Biology, *magna cum laude*, with distinction (3.91/4.00) Yale University

PEER-REVIEWED PUBLICATIONS

8. Juman, M.M., Gibson, L., Suu-Ire, R.D., Languon, S., Quaye, O., Fleischer, G., Asumah, S., Jolma, E.R., Gautam, A., Sterling, S.L., Yan, L., Broder, C.C., Laing, E., Wood, J.L.N., Cunningham, A.A., Restif, O. (*in review*) Ecological and reproductive cycles drive henipavirus seroprevalence in the African Straw-Coloured Fruit Bat. Ecology and Evolution.

7. Olson, L.E., **Juman, M.M.** (2024) Host taxonomy is critical in zoonotic disease surveillance and reporting. Journal of Wildlife Diseases 60: 554-555.

 Juman, M.M., Olson, L.E., Sargis, E.J. (2024) Craniometric variation and taxonomic boundaries in the Madras Treeshrew (Scandentia, Tupaiidae: *Anathana ellioti* [Waterhouse, 1850]) from India. Journal of Mammalian Evolution: 31:4.

5. Juman, M.M., Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. (2022) Taxonomic boundaries in Lesser Treeshrews (Scandentia, Tupaiidae: *Tupaia minor* Günther, 1876). Journal of Mammalogy 103: 1431-1440.

4. Juman, M.M., Millien, V., Olson, L.E., Sargis, E.J. (2022) Recent and rapid ecogeographical rule reversals in Northern Treeshrews. Scientific Reports 12: 19689.

3. Juman, M.M., Olson, L.E., Sargis, E.J. (2021) Skeletal variation and taxonomic boundaries in the Pen-tailed Treeshrew (Scandentia, Ptilocercidae: *Ptilocercus lowii* Gray, 1848). Journal of Mammalian Evolution 28: 1193-1203.

2. Juman, M.M., Woodman, N., Olson, L.E., Sargis, E.J. (2021) Ecogeographic variation and taxonomic boundaries in Large Treeshrews (Scandentia, Tupaiidae: *Tupaia tana* Raffles, 1821) from Southeast Asia. Journal of Mammalogy 102: 1054-1066.

1. Ruane, S., Myers, E.A., Lo, K., Yuen, S., Welt, R.S., **Juman, M.M.**, Futterman, I., Nussbaum, R.A., Schneider, G., Burbrink, F.T., Raxworthy, C.J. (2018) Unrecognized species diversity and new insights into colour pattern polymorphism within the widespread Malagasy snake *Mimophis* (Serpentes: Lamprophiidae). Systematics and Biodiversity 16: 229-244.

RESEARCH PRESENTATIONS

Juman, M.M. Museums, Microbes, and the Machine: AI-driven pathogen surveillance in natural history collections. To be presented at **"Zoonotic Collecting": The Fourth Annual Conference of The Global War Against the Rat and the Epistemic Emergence of Zoonosis**, St Andrews, Scotland (6/25/2024).

Juman, M.M., Restif, O. Seasonal and spatial patterns of henipavirus seroprevalence in Straw-Coloured Fruit Bats (*Eidolon helvum*). British Ecological Society Annual Meeting, Belfast, Northern Ireland (12/15/2023).

Juman, M.M., Millien, V., Olson, L.E., Sargis, E.J. Recent and rapid ecogeographical rule reversals in Northern Treeshrews. International Mammalogical Congress 13, Anchorage, AK (7/14/2023).

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Fall 2022 – Present

May 2020

Juman, M.M., Woodman, N., Miller-Murthy, A., Olson, L.E., Sargis, E.J. Taxonomic boundaries in Lesser Treeshrews. **Meeting of the American Society of Mammalogists**, virtual (6/18/2022).

Juman, M.M., Olson, L.E., Sargis, E.J. Skeletal variation and taxonomic boundaries in the Pen-tailed Treeshrew. Meeting of the American Society of Mammalogists, virtual (6/15/2021).

Juman, M.M., Woodman, N., Olson, L.E., Sargis, E.J. Hand proportions and taxonomic boundaries among Large Treeshrews. **Meeting of the American Society of Mammalogists**, Washington, D.C. (6/29/2019).

IUCN RED LIST ASSESSMENTS

Juman, M.M., Sargis, E.J., Talmale, S.S. (accepted) Anathana ellioti. The IUCN Red List of Threatened Species.
Juman, M.M., Sargis, E.J. (2023) Tupaia belangeri. The IUCN Red List of Threatened Species.
Juman, M.M., Sargis, E.J. (2023) *Tupaia minor*. The IUCN Red List of Threatened Species.
Juman, M.M., Sargis, E.J. (2023) *Ptilocercus lowii*. The IUCN Red List of Threatened Species.
Juman, M.M., Sargis, E.J. (2023) *Tupaia tana*. The IUCN Red List of Threatened Species.

FELLOWSHIPS, GRANTS, AND AWARDS

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$\mathbf{L}_{\mathbf{m}} = \mathbf{L}_{\mathbf{m}} $	2024
James L. Patton Award (\$5000), American Society of Mammalogists	2024
Verena (Viral Emergence Research Initiative) Fellow-in-Residence Award (\$5000)	2024
Accelerate-C2D3 (Cambridge Centre for Data-Driven Discovery) Research and Innovation Grant (£9,30)	3) 2023
Gates Cambridge Scholarship (full PhD tuition + £20,000/year stipend)	2022 - 2026
NSF Graduate Research Fellowship (\$138,000, declined)	2022
Fulbright U.S. Student Research Fellowship to Malaysia (\$18,000, postponed due to COVID-19)	2021
Travel Awards (\$200, \$400, \$600), American Society of Mammalogists	2021, 2022, 2023
Y-Work Award for Outstanding Student Employees, Yale University	2020
Undergraduate Research Honorarium (\$1,200), American Society of Mammalogists	2019
Dean's Research Fellowship in the Sciences (\$4,300), Yale University	2019
Alan S. Tetelman Fellowship for International Research in the Sciences (\$3,600), Yale University	2019
Yale Summer Environmental Fellowship (\$2,000), Yale School of the Environment	2019
Richter Summer Fellowship (\$1,000), Saybrook College	2019
Karen L. Von Damm Undergraduate Research Fellowship (\$3,784), Yale Earth & Planetary Sciences	2017

TEACHING

Part II Zoology: Mammal Evolution and Comparative Anatomy, University of Cambridge Lent Terms 2023, 2024 Supervisor (led specimen-based small group teaching for third-year undergraduates, provided writing feedback)

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Part I Pathology: Mathematical Biology , University of Cambridge Demonstrator (assessed students' R code for a practical assignment on epidemiological modeling)	Easter Term 2023
S&DS S230: Data Analysis and Exploration , Yale University <i>Teaching assistant (held office hours, graded assignments, demonstrated R code)</i>	Summer 2020
ANTH S242: Human Evolutionary Biology , Yale University Writing fellow (served as primary writing resource for 90 students)	Summer 2020
Yale College Writing Center, Yale University	2017 - 2020

ESL-Certified Writing Partner (held weekly drop-in tutoring hours and provided feedback to non-native English writers)

SCIENCE COMMUNICATION

 <i>Contributor</i>, Bat Pathogen Spillover Compendium, Johns Hopkins University Work with a team of disease ecologists to review scientific papers on bat virus spillover for a publicly expert-curated database (to be launched in 2024). 	023 – Present y available,
 Species Page Contributor, India Biodiversity Portal (<u>indiabiodiversity.org</u>) Validate and identify observations of Scandentia (treeshrews) in an open citizen science database. Founder and administrator of the Small Mammals of India microsite. 	022 – Present
 <i>Tour Guide and Collections Assistant</i>, Yale Peabody Museum of Natural History (part-time job) Led weekly behind-the-scenes tours to encourage public engagement with the Peabody's collections a Digitized 6,573 invertebrate and vertebrate fossils for the NSF Cretaceous World Project. 	2016 – 2020 and research.
 Podcast Host and Producer, "Inkredible: A Cephalopodcast," published on SoundCloud, Apple, and Spotify Created an original episode about biological ink, accompanied by a website (<i>inkrediblepod.wordpress</i>) 	
 Photographer, "Peabody Portraits," presented at Yale School of Art Edited and compiled a portfolio of DSLR images of the Yale Peabody Museum's paleontology collection 	2019 ctions.
 Writer, "The Taming of the Treeshrew" (<u>tamingofthetreeshrew.wordpress.com</u>) Maintained a blog documenting collections-based research experiences at Yale and the Smithsonian. 	2018
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OUTREACH

Cambridge Science Festival	March 2023, 2024
Activity organizer (designed and ran a "bat virus hunting" activity for families visiting the veterin	hary school)
Skype a Scientist <i>Guest scientist (discuss research and STEM career pathways with K-12 science students in the U.)</i>	2023 – Present <i>S. and U.K.)</i>
Women of Color in Ecology and Evolutionary Biology Mentor Match (<i>wocineeb.org</i>)	2023 – Present
Ecology and Evolutionary Biology Mentor Match (<i>eebmentormatch.com</i>)	2022 – Present
<i>Mentor (provide personalized feedback to undergraduate students applying to graduate school an</i>	d fellowships)
Letters to a Pre-Scientist	2021 – Present
STEM pen pal (write bilingual science-themed letters to middle schoolers in underserved U.S. sch	ool districts)
Alumni Career Panels, American Museum of Natural History6/22/201Panelist (spoke about college admissions, academic career paths, and research opportunities with	19, 9/10/2021, 9/30/2022 h NYC high schoolers)
Yale Ecology & Evolutionary Biology Undergraduate Group	2019 – 2020
Co-President and Peer Mentor (organized research panels, social events, and workshops for stude	ents)
PUBLIC SERVICE	

COVID-19 Response Coordinator, Philadelphia Department of Public Health (full-time job) 2020 – 2022

- Supervised a team of contact tracers and investigated high-risk COVID-19 clusters.
- Designed monthly software updates to streamline the collection and management of epidemiological data.
- Synthesized and presented weekly patterns to Chief of Operations and Philadelphia Health Commissioner.

UNDERGRADUATES MENTORED

Lewis Drummond, University of Cambridge (direct supervisor for Part II research project) Gabrielle Roman, Yale University (provided training in R-based multivariate analyses) Katie Handler, Yale University (provided training in R-based multivariate analyses)	2023 - 2024 2023 2022
INVITED TALKS AND PANELS	
"Recent and Rapid Ecogeographical Rule Reversals in Northern Treeshrews" Olson Lab, University of Alaska Fairbanks	12/7/2022
"Viruses, Variants, Virulence: Lessons from Ecology and Evolution" Philadelphia Department of Public Health	1/25/2022
"Scientific and Cultural Uses of Cephalopod Ink" Yale Peabody Museum of Natural History (first undergraduate student to deliver a public gallery talk)	2/13/2020

OTHER SKILLS AND EXPERIENCE

Museum work:

- *Research internships*: American Museum of Natural History (2014-2016, Herpetology); Smithsonian National Museum of Natural History (Summer 2018, Mammalogy); Yale Peabody Museum of Natural History (Summer 2018, Mammalogy)
- *Collection visits*: Smithsonian National Museum of Natural History (2019); Harvard Museum of Comparative Zoology (2019); Yale Peabody Museum of Natural History (2019); Field Museum of Natural History (2019); Natural History Museum, London (2019, 2023); American Museum of Natural History (2019)
- *Employment*: Yale Peabody Museum of Natural History (2016-2020, Invertebrate and Vertebrate Paleontology Collections Assistant); University of Alaska Museum (2022–, Mammalogy Research Technician)

Field work:

• *Southeast Alaska, USA*: Collected hoary marmots and bumble bees from remote alpine regions for the University of Alaska Museum. Conducted orthopoxvirus surveillance in hoary marmot populations in collaboration with the Alaska State Department of Public Health and U.S. Centers for Disease Control (July 2022, July 2023).

Editor:

• *Editor-in-Chief*, The Scholar, Gates Cambridge Council (*thescholar.online* and <u>Spotify</u>): Oversaw the production of the Gates Cambridge community's annual magazine, which includes articles, photo essays, videos, and podcast contributions from current scholars and alumni (2022–2023).

Reviewer: iScience (2023), Journal of Mammalogy (2023), PLoS ONE (2022), Philippine Journal of Science (2022)

Languages: English, Spanish (proficient), Hindi (read/write), Malayalam (read/write)

Software: R, Python, ArcGIS, EMu, FileMaker, ImageJ, Adobe InDesign and Photoshop

Professional Affiliations:

- American Society of Mammalogists (2019–)
- British Ecological Society (2022–)
- IUCN SSC Small Mammal Specialist Group (2024–)